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PHOTOGRAPHIC OBSERVATIONS OF MINOR PLANETS.

Asteroids (415) *Palatia* and (439) *Ohio* were picked up by trails on negatives of forty minutes' exposure with the Crossley reflector on the night of June 23, 1902. On the same night Mr. PALMER and I secured four five-minute exposures on each asteroid. On the following night, Mr. PERRINE and I exposed two more plates on each object. Two exposures were made on each negative, the plate being moved in Right Ascension between successive exposures. In the reductions, the exposures on each plate were treated as so many comparisons in a micrometer observation, except in case of Plate 6, on which but one of the asteroid images was available for measurement. The measures have been corrected for refraction, scale value, and orientation. Mean places of the comparison-stars for 1902.0 were employed directly in the reduction, as precession and aberration simply affect the orientation.

The accompanying table contains the positions of the asteroids as determined from each plate and a comparison with ephemerides kindly furnished by Dr. E. F. CODDINGTON. The details of the measures will be published in the Lick Observatory *Bulletin*. In every case, the asteroid images were measured with some difficulty but more particularly was this true of the negatives of June 23d, when the seeing was poor.

R. H. CURTISS.

Plate.	Mt. Hamilton M. T.	α	δ	$\log p \Delta$	$O - C$	Exposure Time.
				α δ	$\Delta \alpha$ $\Delta \delta$	
(439) <i>Ohio</i> .						
	1902 h m s	h m s	° ' "		m s ' "	m
1	June 23 12 32 58	17 18 32.87	+ 0 34 0.8	9.211 0.722	+ 0 56 16 + 2 10.1	5
2	23 12 46 55	17 18 32.44	+ 0 34 1.4	9.277 0.722	+ 0 56.15 + 2 10 0	5
3	24 10 34 45	17 17 53.51	+ 0 34 58.9	n 8.826 0.728	+ 0 56.19 + 2 9.8	5
4	24 10 47 45	17 17 53.08	+ 0 34 59.3	n 8 613 0 728	+ 0 56 16 + 2 9.7	5
(415) <i>Palatia</i> .						
5	June 23 10 56 55	15 33 51.63	- 9 22 31.9	9.256 0.801	- 0 35 25 + 2 6.6	5
6	23 11 18 55	15 33 51.18	- 9 22 32.6	9.346 0.798	- 0 35.21 + 2 6.6	5
7	24 9 32 45	15 33 23.00	- 9 23 9.1	8.307 0.807	- 0 35.11 + 2 6.5	8
8	24 9 49 45	15 33 22.63	- 9 23 9 7	8.437 0.807	- 0 35.13 + 2 6.4	8